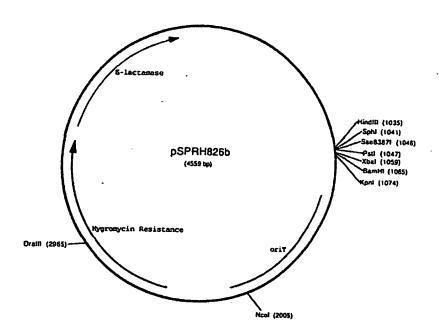


Fig. 1.

pSPRH826b insertion plasmid



pSPRH840 integrating vector

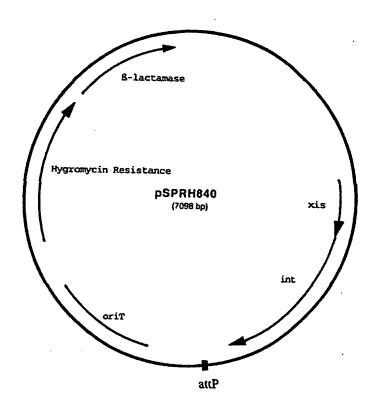
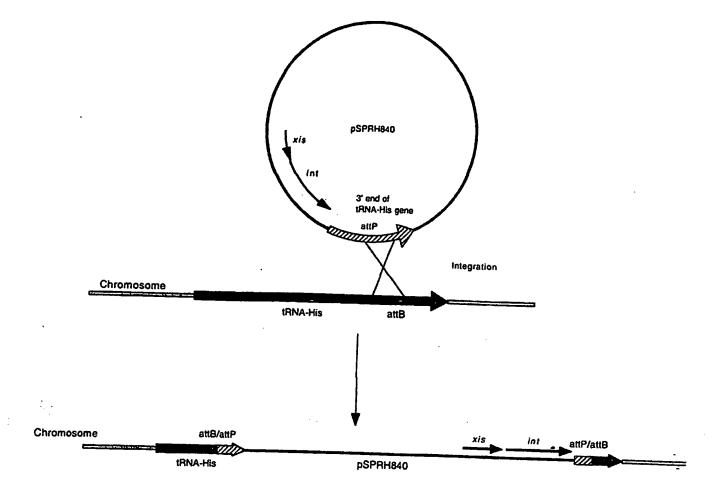


Fig. 3.



- (a) 1 TAGGGGAATCCACTCCGGAGACGCCCGGAGCAATCCGGAGCATGACGGAGCAACCAGCAGGTCAGGTGGCCTGTTGACCCCTGACCAGGGCCC
- 95 CGGTACGGGTTCAATTCCCATCAGTCACCCGGCAAGTGGATCTACTCCACAGCAGATCAGGCCCCTCCGAA
- 167 GAGGGGCCTGATGCGTCATAGGGGACAGGTAGGGGAACTCAA
- (b) 1 TATTAGTCCGCACGCCCGCCCGCCCGCCGGAGCGCATGGTGGTGGCTGTAGCTCAGTTGGCAGAGCACCGGGTTGTGGTCCCGGT
- 90 втсвт**GGGTTCAATTCCCATCAGTCACCCG**тасасваявессстесаетоваявеее товестов в втом в в стородительной в протисте в в протист
- 162 CTGAGGGTTCGCGGTCAGGCGGTCGGCGCTCGGCGCCCCGTCGGCGGAGTGGCCTCGGCGTCGGGGAA $_{22}^{4}$, a t p e a s p s e a g d a p t a e a d p s
- (c) 1 TGGCGGGGGTGTGGCTATTATTAGTCCGCCCCGCCCCGGCCCCGGAGCGGAGCGCATGGTGGCTGTAGCTCAGTTGGCAGAGCACCG
- 92 GGTTGTGGTCCCGGTTGTCGTGGGTTCAATTCCCATCAGTCACCCGGCAAGTGGATCTACTCCACAGCAG
- 162 ATCAGGCCCCCTCCGAAGAGGGGGCCTGATGCGTCATAGGGGACAGGTAGGGGAACTCAACCCCCGGCTCCTTGCTCGCGTC
- (d) 1 TAGGGGAATCCACTCCGGAGACGCCCGGAGCAATCCGGAGCATGACGGAGCAACCAGCAGGTGGTCAGGTGGCCTGTTGACCCCTGACCAGGGCCC

attP/attB right juncture

- 95 светас GGGTTCAATTCCCATCAGTCACCCG ТАСАВВЕССССТОСАСТОВАВЕССТОВ В СВЕТЕВ В
- 167 CCTGAGGGTTCGCGGTCAGGCGGTCGGCGCTCGGCGCACTCGGCCCCGTCGGCGGAGTGGCCTCGGCGTCCGGGGAACTCGGCGGAGTGCCTCGGCGTCCGGGGAACTCGGCGGAGTGGCCTCGGCGTCCGGGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGGAACTCGGCGGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGAACTCGGCGGGAACTCGGCGAACTCGGCGGAACTCGGCGAACTCGGCGGAACTCGGCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCAACTAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACT

FIG. 4

- (a) 1 TAGGGGAATCCACTCCGGAGACGCCCGGAGCAATCCGGAGCATGACGGAGCAACCAGCAGGTCAGGTGGCCTGTTGACCCCTGACCAGGGCCC
- 95 светас GGGTTCAATTCCCATCAGTCACCCGвсаавтватстастссасаватсавессесетесва
- 167 GAGGGGCCTGATGCGTCATAGGGGACAGGTAGGGGAACTCAA
- (b) 1 TTTCTCCGCACCCGCCCCGGGGCGTTCGACCGGGTGCGGCGCATGGTGGCTGTAGCTCAGTTGGCAGAGCACCGGGTTGTGGTCCCGG1
- 90 TGTCGTGGGTTCAATTCCCATCAGTCACCCCAGGTAAGACCCAGGTCAGGGCCGGTTCTCACCGGCCCTGA
- (c) 1 TTTCTCCGCACCCGCCCGGGGCGTTCGACCGGGTGCGGCGCATGGTGGCTGTAGCTCAGTTGGCAGAGCACCGGGTTGTGGTCCCGGT
- 90 TGTCGTGGGTTCAATTCCCATCAGTCACCCGGCAAGTGGATCTCCACAGAGTAGGCCCCTCCGAA
- 162 GAGGGGGCCTGATGCGTCATAGGGGACAGGTAGGGAAACTCAACCCCCGGCTCCTTGCTCGCGTCGGGTCATGCCGTCCGCGTACCCCTCCGCGT
- 257 ACCTGGCCCTCTCCCGTTCCTCGATCTCGGCCGGCGAGCTGATCGCGCAGGTGCGCCTCC
- (d) 1 TAGGGGAATCCACTCCGGAGACGCCCGGAGCATCCGGAGCATGACGGAGCAACCAGCAGGTCAGGTGGCCTGTTGACCCCCTGACCAGGGCCCC
 - 96 GGTACGGGTTCAATTCCCATCAGTCACCCAGGTAAGACCCAGGTCAGGGCCGGTTCTCACCGGCCCTGACG attP/attB right juncture
- 168 CATTITCAGGGGCATGGTGGGGGGCGTACCGGGGGTGTCTCTCACCGCGAGCCAGCATCTCGATCAGGCGATCGAGCCGGCGCTGCCGGG 22⁴• R P H P T E G R A L M E I L 'R D L R R